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4/23/02

PATENT
Attorney Docket No. 07681.0018-01
Customer No. 22,852

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Keith Campbell et al.

Serial No.: 09/989,128

Filed: November 21, 2001

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)
) Group Art Unit: 1632

)
) Examiner: D. Crouch

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For: UNACTIVATED OOCYTES AS CYTOPLAST
RECIPIENTS FOR NUCLEAR TRANSFER

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

AMENDMENT AND RESPONSE TO PAPER NO. 5

In response to the Office Action dated February 26, 2002 (Paper No. 5),
applicants submit the following amendment and remarks. Please amend this
application as follows:

IN THE CLAIMS:

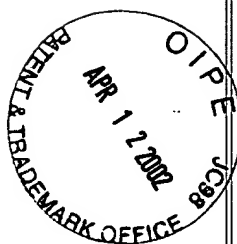
Please cancel claim 19 and add the following new claims:

-- 20. (New) A method of cloning a pig, comprising:

(i) inserting a nucleus of a differentiated pig cell, which is in the G1 phase of the
cell cycle, into an unactivated, enucleated, metaphase II-arrested, pig oocyte, to
reconstruct an embryo;

(ii) maintaining the reconstructed embryo without activation for a sufficient time to
allow the reconstructed embryo to become capable of developing to term;

(iii) activating the resultant reconstructed embryo; and



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